

HPF/SPF Closed Loop Filtration VS. OTHER Filtration



BAG AND CARTRIDGE FILTERS

- Most commonly used
- Ideal for smaller closed loops less than 2,000 gallons

CONS

- Manually operated
- Not always practical to use
- Operator dependent
- Increased labor & maintenance costs
- Operation Expense
- Requires downtime to change bag or cartridge (drain, flush, & retreat closed loop system)
- Requires routine monitoring & maintenance



SAND FILTRATION

- Used on cooling towers and closed loops
- Traps suspended solids throughout media bed
- Automatically backwashes media at pre-set differential pressure or time

CONS

- Only removes larger suspended solids 20 micron or greater

HPF/SPF CLOSED LOOP FILTRATION



HPF FILTER

- Removes particles down to **5 MICRON**
- High-surface-area media to allow particles to filter deeply within bed that can be easily backwashed



SPF FILTER

- Removes particles down to **0.5 MICRON**
- Filters along the media surface bed



HOT WATER HPF/SPF FILTER

- Removes particles down from **5 TO 0.5 MICRON** depending on the media used
- Uses HPF and SPF media
- 200°F Maximum Temperature

BENEFITS OF HPF/SPF CLOSED LOOP FILTRATION



- Self-cleaning
- Automatically backwashes based on user selectable pressure differential
- Reduces system component damage
- Increases equipment efficiency
- Allows treatment chemicals to properly work
- Prevents unexpected system shutdown
- Reduces labor and maintenance costs
- High solids loading capacity reduces backwash frequency
- Reduces energy

- Reduces water usage
- Best for closed loop systems less than 120°F and a maximum of 100 psig
- Operates at higher flow rates with longer periods of time between backwashes
- Uses fresh water source minimizing wasted treated system water
- Digital counter displays number of backwashes completed
- Pre-assembled and pre-programmed for easy installation
- Requires minimal plant involvement

CONTACT US TODAY to learn more about our water treatment programs and to have a free survey and filtration test performed by a trained Chem-Aqua Representative.